The invention relates to agriculture, in particular to the equipment for cutting of the vegetable stalk mass.

The electromechanical power regulator includes an electromechanical energy converter and a mechanism for distribution of mechanical power among the drive shafts of the feeding conveyer and the metering drum of the vegetable stalk mass cutter. According to the invention the electromechanical energy converter is made in the form of an electric motor with two shafts, two rotors and a stator with winding, placed radially. The internal working rotor with short-circuited winding and the external hollow rotor are installed into the bore of the stator with winding. The mechanism for distribution of mechanical power is made in the form of clutches with driving and driven elements, and it is provided with overtaking rollers, which run in one direction, the driving elements of the clutch being rigidly joined with the drive shaft of the internal working rotor, and the driven elements of the clutch being rigidly joined with the drive shaft of the external hollow rotor. The first drive shaft of the electromechanical converter is kinematically joined with the drive shaft of the feeding conveyer and the second shaft is joined with the drive shaft of the metering drum.

The result consists in the automatic redistribution of mechanical power among the drive shafts of the feeding conveyer and the metering drum, and in increasing the reliability of the electromechanical regulator.